



# *EiconCard P92*

for PCI-Compatible Bus

# ***First Edition (February 1997)***

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**EiconCard P92**  
**Model Number: 800-298**

**FCC ID: E3S5NN 800-298**  
**MADE IN CANADA**

This device complies with FCC Rules, Part 15. Operation is subject to the following two conditions:

- 1) This device may not cause harmful interference, and
- 2) This device must accept any interference that may be received, including interference that may cause undesired operation.

# Table of Contents

Introduction .....	5
Installing the EiconCard P92 .....	6
Selecting an Interface .....	7
Connection Status Indicators .....	8
Interface Specifications .....	9
The V.24 Interface .....	10
The V.35 Interface .....	12
The EIA-530 Interface .....	14
The V.36/RS-449 Interface .....	16
The X.21 Interface .....	18
Back-to-Back Connections .....	20
Cable Construction Information .....	21
Technical Specifications .....	22
International Regulatory Information .....	23
Limited Warranty .....	27



# ***Introduction***

This guide describes how to install the EiconCard P92 card in any computer with a PCI-compatible bus.

The EiconCard P92 allows stand-alone PCs or multiple users on a Local Area Network (LAN) to make very high speed connections to a Wide Area Network (WAN). These connections are typically made through the EiconCard P92 to external communications equipment (including CSUs, DSUs, and synchronous and asynchronous modems) to provide access to WAN lines. Direct connections to a host computer or to another EiconCard are also supported.

## ***Hardware Features***

The EiconCard P92 features a 10MHz Hitachi 64570 controller and 512 KB of on-board RAM. It has two independent Very High-Speed Interface (VHSI) ports, supporting full duplex communications over a V.24, V.35, EIA-530, V.36/RS-449, or X.21 interface at speeds of up to 2 Mbps per port, depending on the type of interface selected.

## ***Ease of Use***

No interface selection is required beyond connecting the appropriate cable to the EiconCard P92. The intelligent controller on the card detects which interfaces the cable supports and automatically configures that port accordingly.

# Installing the EiconCard P92

The steps below describe how to install the EiconCard P92.

## 1 Prepare the PC

Turn off the PC and disconnect its power cable. Remove the cover of the PC according to the instructions that came with it.

## 2 Install the EiconCard P92

Insert the EiconCard P92 in any available PCI port. Secure the adapter to the chassis of the PC using the bracket-retaining screw. Reinstall the cover of the PC and reconnect the power cable.

## 3 Test the EiconCard P92

The application software that you purchased with the EiconCard P92 contains a test program to verify the card's integrity. Consult the documentation supplied with this software for details.

## 4 Configure the EiconCard P92

Before you can use the EiconCard P92, you must configure it to work with your communications software. The documentation which came with this software contains complete instructions on how to configure the card. During configuration, note the following:

- The ports are numbered Port 1 and Port 2 as indicated in Figure 1.
- The LEDs indicate connection and configuration status. For a description of connection status indications, see page 8.

For a description of how the LEDs are used during configuration, consult the documentation which came with your networking software.

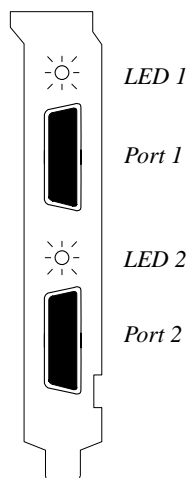


Figure 1. End Bracket

# Selecting an Interface

The EiconCard P92 can connect as a DTE to devices such as Data Service Units (DSUs) which support one of the following interfaces: V.24, V.35, EIA-530, V.36/RS-449, or X.21. It can also connect directly to a host computer, or back-to-back to another EiconCard. Each VHSI port is configured independently.

Table 1 lists the most common connections for each interface, and gives the part number of the required Eicon Technology cable. For information on making your own cables, see “Interface Specifications,” on page 9.

<i>Interface</i>	<i>Connection</i>	<i>Part #</i>
V.24	to V.24 DCE	300-077
	to V.24 DTE	300-078
V.35	to V.35 DCE	300-076
	to V.35 DCE (France)	300-083
EIA-530	to EIA-530 DCE	300-080
V.36/RS-449	to V.36/RS-449 DCE	300-079
X.21	to X.21 DCE	300-081
Direct	to VHSI port on another EiconCard P92 or compatible Eicon Technology EiconCard	300-075

*Table 1. Standard Interface Cables*

To use an interface, simply install the appropriate cable. The EiconCard P92 recognizes the cable and automatically prepares the port for that interface.

Consult the documentation which came with your networking software for more information about port configuration.

# Connection Status Indicators

The green LED adjacent to each port on the EiconCard P92—see Figure 1 on page 6—provides a convenient indication of the status of the connection on that port. The LED indicates the status as follows:

LED State	Connection Status	Remedy
Off	The port is not loaded (the configuration file describing protocol and interface parameters has not been read by the device driver on the PC).	Consult your networking software for instructions on how to load a configuration file and how to start a connection.
Rapid Flash (stays on for 1/2 second)	The connection has not been established. Either the port is loading <b>OR</b> there is no response from the destination device <b>OR</b> the EiconCard P92 is waiting for a VHSI cable to be connected to the port.	Verify that the cable is properly connected to the port. If the light continues flashing after a few minutes, verify that the destination device is active.
Slow Flash (stays on for 1 second)	The connection was interrupted unexpectedly. The cable was unplugged or damaged while a connection was active.	Reconnect the cable.
On	The port is active and the connection is good.	

Table 2. Explanation of LED States



# Interface Specifications

The standards compliant with each interface supported on the VHSI ports are listed in Table 3. The rest of this section describes the allocation of pins used to implement the electrical and signalling requirements of each interface. A wiring diagram is also provided, to show the correspondence of the interface pinout to the VHSI port.

<i>Interface</i>	<i>Standard</i>	<i>Compatibility</i>
V.24	CCITT V.24	Signalling
	CCITT V.28	Electrical
	CCITT X.21bis	Electrical and signalling
	EIA RS-232-C	Electrical and signalling
	ISO 2110	Connector type for the DCE side of a V.24 VHSI Modem Cable
V.35	CCITT V.28	Some signals for electrical
	CCITT V.35	Some signals for electrical and signalling
	ISO 2593	Connector type for the DCE side of a V.35 VHSI Modem Cable
EIA-530	RS-422	Electrical
	RS-423	Electrical
	ISO 2110	Connector type for the DCE side of a EIA-530 VHSI Modem Cable
V.36/RS-449	CCITT V.10	Electrical
	CCITT V.11	Electrical
	RS-422	Electrical
	RS-423	Electrical
	ISO 4902	Connector type for the DCE side of a V.36/RS-449 VHSI Modem Cable
X.21	CCITT X.21	Signalling
	CCITT V.11	Electrical
	CCITT X.27	Electrical
	EIA RS-422-A	Electrical
	ISO 4903	Connector type for the DCE side of an X.21 VHSI Modem Cable

*Table 3. Interface Compatibility*

# The V.24 Interface

A pin-out diagram for the V.24 interface is shown in Figure 2. The signal definitions and names are listed in Table 4.

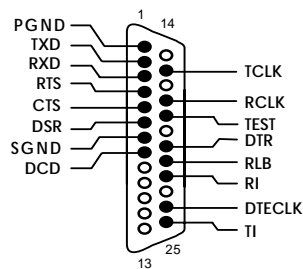


Figure 2. V.24 Interface

Pin #	Signal	Name	Direction	CCITT #
1	PGND	Protective Ground	Common	101
2	TXD	Transmit Data	Output	103
3	RXD	Receive Data	Input	104
4	RTS	Request to Send	Output	105
5	CTS	Clear to Send	Input	106
6	DSR	Data Set Ready	Input	107
7	SGND	Signal Ground	Common	102
8	DCD	Data Carrier Detect	Input	109
15	TCLK	Transmit Clock (DCE)	Input	114
17	RCLK	Receive Clock	Input	115
18	TEST	Local Loopback Activation	Output	141
20	DTR	Data Terminal Ready	Output	108
21	RLB	Remote Loopback	Output	140
22	RI	Ring Indicator	Input	125
24	DTECLK	Transmit Clock (DTE)	Output	113
25	TI	Test Indicator	Input	142

Table 4. V.24 Interface Signals

## VHSI—V.24 Connections

The wiring diagram below shows the connections required to construct a VHSI—V.24 cable. For the additional information required to construct your own cables, see “Cable Construction Information,” on page 21.

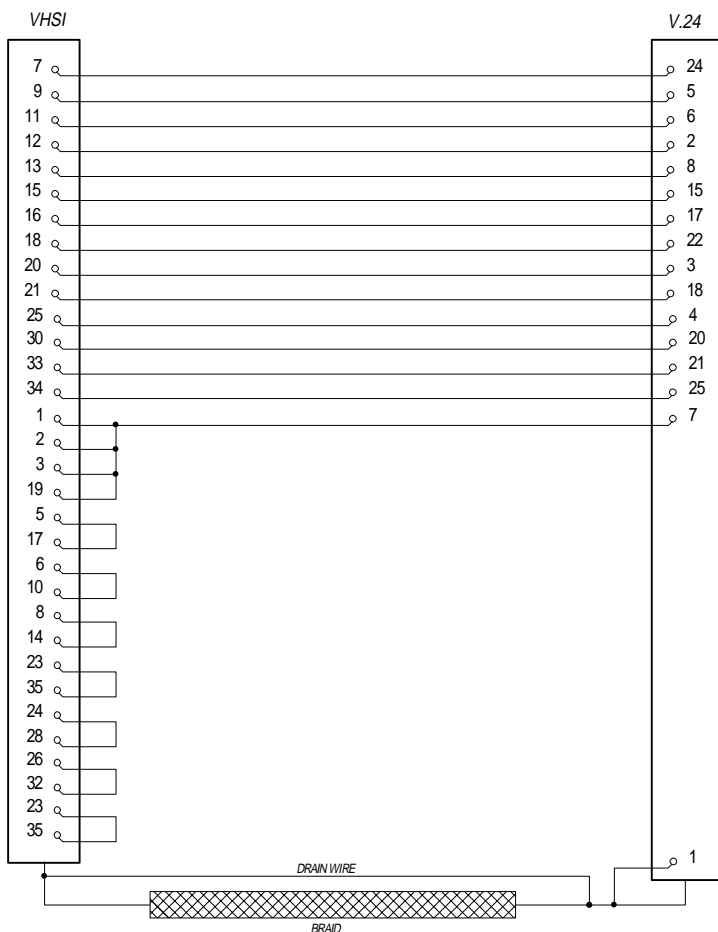


Figure 3. VHSI—V.24 Connections

# The V.35 Interface

A pin-out diagram for the V.35 interface is shown in Figure 4. The signal definitions and names are listed in Table 5.

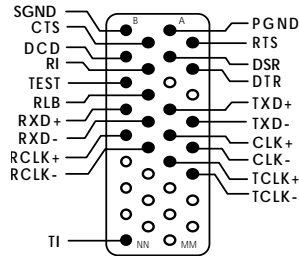


Figure 4. V.35 Interface

Pin #	Signal	Name	Direction	CCITT #
A	PGND	Protective Ground	Common	101
B	SGND	Signal Ground	Common	102
C	RTS	Request to Send	Output	105
D	CTS	Clear to Send	Input	106
E	DSR	Data Set Ready	Input	107
F	DCD	Data Carrier Detect	Input	109
H	DTR	Data Terminal Ready	Output	108
J	RI	Ring Indicator	Input	125
L	TEST	Local Loopback Activation	Output	141
N	RLB	Remote Loopback	Output	140
P	TXD+	Transmit Data	Output	103A
R	RXD+	Receive Data	Input	104A
S	TXD-	Transmit Data	Output	103B
T	RXD-	Receive Data	Input	104B
U	CLK+	Transmit Clock (DTE)	Output	113A
V	RCLK+	Receive Clock (DCE)	Input	115A
W	CLK-	Transmit Clock (DTE)	Output	113B
X	RCLK-	Receive Clock (DCE)	Input	115B
Y	TCLK+	Transmit Clock (DCE)	Input	114A
AA	TCLK-	Transmit Clock (DCE)	Output	114B
NN	TI	Test Indicator	Input	142

Table 5. V.35 Interface Signals

**VHSI—V.35 Connections**

The wiring diagram below shows the connections required to construct a VHSI—V.35 cable. For the additional information required to construct your own cables, see “Cable Construction Information,” on page 21.

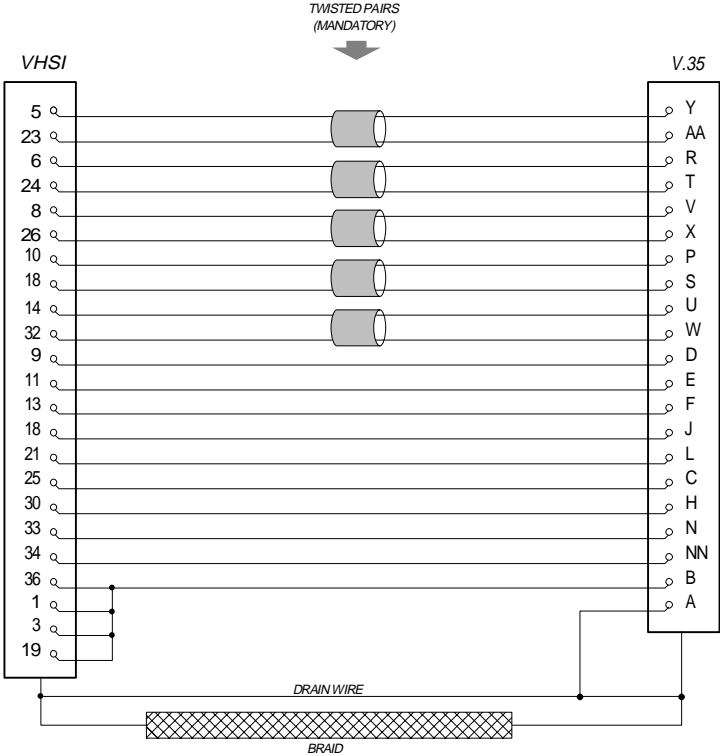


Figure 5. VHSI—V.35 Connections

# The EIA-530 Interface

A pin-out diagram for the EIA-530 interface is shown in Figure 6. The signal definitions and names are listed in Table 6.

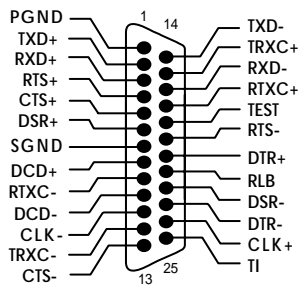


Figure 6. EIA-530 Interface

Pin #	Signal	Name	Direction	CCITT #	EIA #
1	PGND	Protective Ground	Common	101	-
2	TXD+	Transmit Data	Output	103A	BA(A)
3	RXD+	Receive Data	Input	104A	BB(A)
4	RTS+	Request to Send	Output	105A	CA(A)
5	CTS+	Clear to Send	Input	106A	CB(A)
6	DSR+	Data Set Ready	Input	107A	CC(A)
7	SGND	Signal Ground	Common	102B	AB
8	DCD+	Data Carrier Detect	Input	109A	CF(A)
9	RTXC-	Receive Clock (DCE)	Input	115B	DD(B)
10	DCD-	Data Carrier Detect	Input	109B	CF(B)
11	CLK-	Transmit Clock (DTE)	Output	113B	DA(B)
12	TRXC-	Transmit Clock (DCE)	Output	114B	DB(B)
13	CTS-	Clear to Send	Output	106B	CB(B)
14	TXD-	Transmit Data	Output	103B	BA(B)
15	TRXC+	Transmit Clock (DCE)	Input	114A	DB(A)
16	RXD-	Receive Data	Input	104B	BB(B)
17	RTXC+	Receive Clock (DCE)	Input	115A	DD(A)
18	TEST	Local Loopback	Output	141A	LL
19	RTS-	Request to Send	Output	105B	CA(B)
20	DTR+	Data Terminal Ready	Output	108A	CD(A)
21	RLB	Remote Loopback	Output	140A	RL
22	DSR-	Data Set Ready	Input	107B	CC(B)
23	DTR-	Data Terminal Ready	Output	108B	CD(B)
24	CLK+	Transmit Clock (DTE)	Output	113A	DA(A)
25	TI	Test Indicator	Input	142A	TM

Table 6. EIA-530 Interface Signals

## VHSI—EIA-530 Connections

The wiring diagram below shows the connections required to construct a VHSI—EIA-530 cable. For the additional information required to construct your own cables, see “Cable Construction Information,” on page 21.

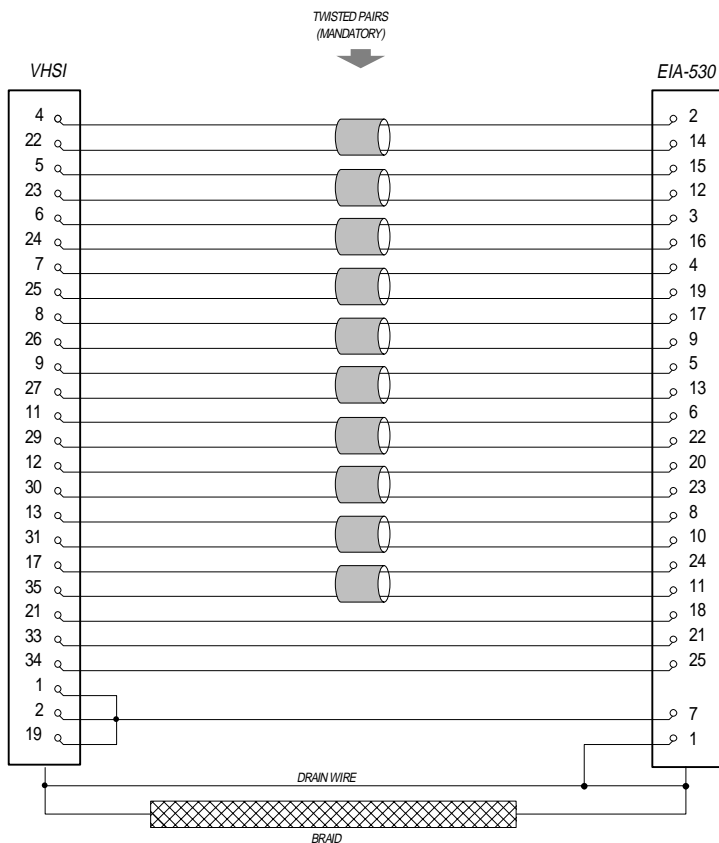


Figure 7. VHSI—EIA-530 Connections

# The V.36/RS-449 Interface

A pin-out diagram for the V.36/RS-449 interface is shown in Figure 8. The signal definitions and names are listed in Table 7.

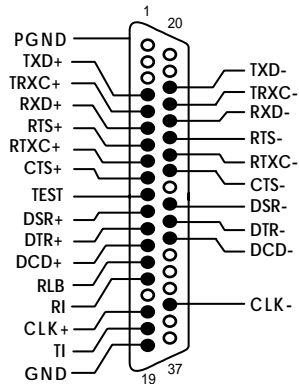


Fig. 8. V.36/RS-449 Interface

Pin #	Signal	Name	Direction	CCITT #
Case	PGND	Protective Ground	Common	101
4	TXD+	Transmit Data	Output	103A
5	TRXC+	Transmit Clock (DCE)	Input	114A
6	RXD+	Receive Data	Input	104A
7	RTS+	Request to Send	Output	105A
8	RTXC+	Receive Clock (DCE)	Input	115A
9	CTS+	Clear to Send	Input	106A
10	TEST	Local Loopback Activation	Output	141A
11	DSR+	Data Set Ready	Input	107A
12	DTR+	Data Terminal Ready	Output	108A
13	DCD+	Data Carrier Detect	Input	109A
14	RLB	Remote Loopback	Output	140A
15	RI	Ring Indicator	Input	125A
17	CLK+	Transmit Clock (DTE)	Output	113A
18	TI	Test Indicator	Input	142A
19	GND	DTE Common Return	Common	102A/B
22	TXD-	Transmit Data	Output	103B
23	TRXC-	Transmit Clock (DCE)	Output	114B
24	RXD-	Receive Data	Input	104B
25	RTS-	Request to Send	Output	105B
26	RTXC-	Receive Clock (DCE)	Input	115B
27	CTS-	Clear to Send	Output	106B
29	DSR-	Data Set Ready	Input	107B
30	DTR-	Data Terminal Ready	Output	108B
31	DCD-	Data Carrier Detect	Input	109B
35	CLK-	Transmit Clock (DTE)	Output	113B

Table 7. V.36/RS-449 Interface Signals



## VHSI—V.36/RS-449 Connections

The wiring diagram below shows the connections required to construct a VHSI—V.36/RS-449 cable. For the additional information required to construct your own cables, see “Cable Construction Information,” on page 21.

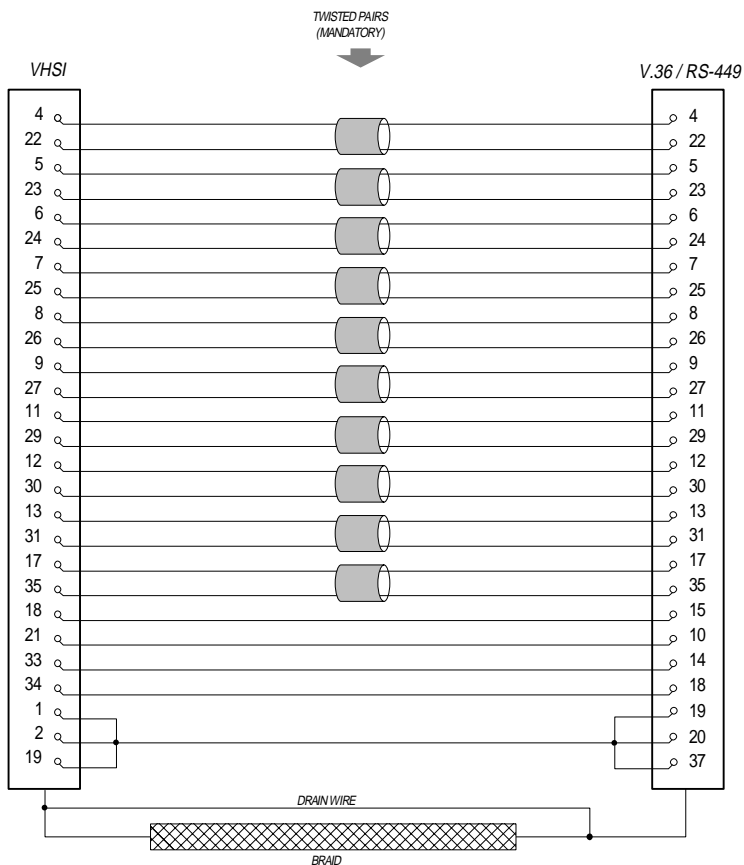


Figure 9. VHSI—V.36/RS-449 Connections

# The X.21 Interface

A pin-out diagram for the X.21 interface is shown in Figure 10. The signal definitions and names are listed in Table 8.

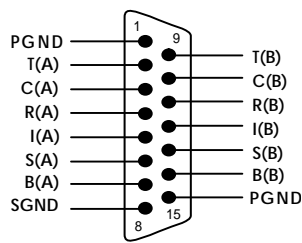


Figure 10. X.21 Interface

Pin #	Signal	Name	Direction	CCITT #
1/15	PGND	Protective Ground	Common	101
2	T(A)	Transmit Data (+)	Output	103A
3	C(A)	Control Signal (+)	Output	105A
4	R(A)	Receive Data (+)	Input	104A
5	I(A)	Indication (+)	Input	109A
6	S(A)	Signal Element Timing (+)	Input	115A
7	B(A)	Byte Timing (+)	Input	114A
8	SGND	Signal Ground	Common	102
9	T(B)	Transmit Data (-)	Output	103B
10	C(B)	Control Signal (-)	Output	105B
11	R(B)	Receive Data (-)	Input	104B
12	I(B)	Indication (-)	Input	109B
13	S(B)	Signal Element Timing (-)	Input	115B
14	B(B)	Byte Timing (-)	Input	114B

Table 8. X.21 Interface Signals

## VHSI—X.21 Connections

The wiring diagram below shows the connections required to construct a VHSI—X.21 cable. For the additional information required to construct your own cables, see “Cable Construction Information,” on page 21.

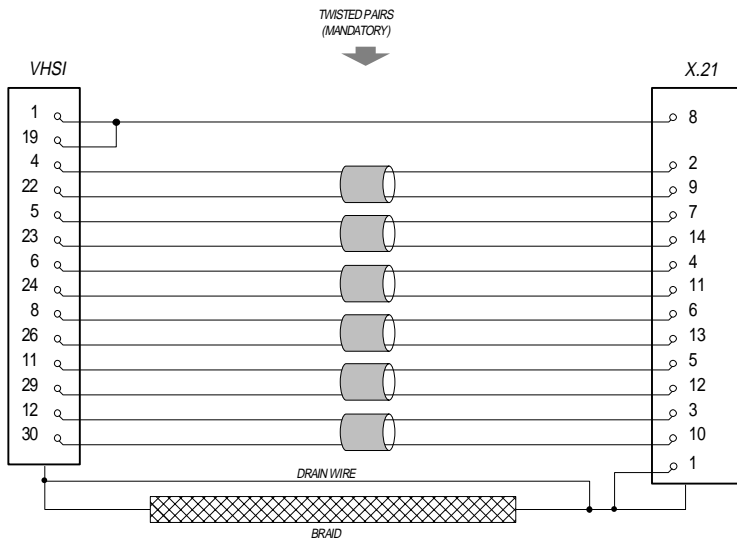


Figure 11. VHSI—X.21 Connections

# Back-to-Back Connections

The wiring diagram below shows the connections required to construct a back-to-back VHSI—VHSI cable. Back-to-back operations are conducted through the V.36 interface. For the additional information required to construct your own cables, see “Cable Construction Information,” on page 21.

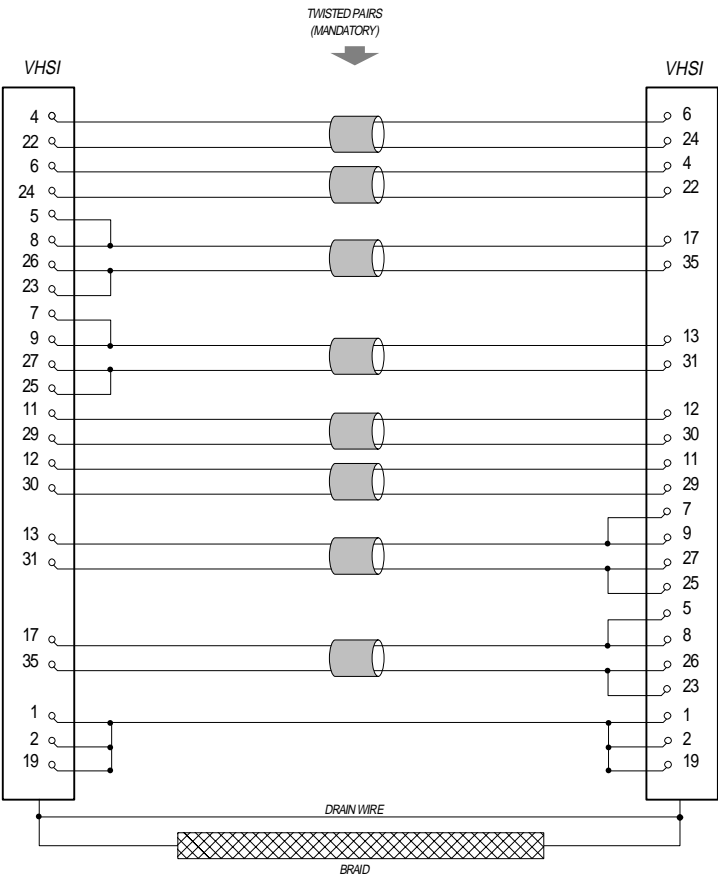


Figure 12. VHSI—VHSI Connections

## ***Cable Construction Information***

If you plan to construct your own VHSI cables, be sure to observe the guidelines given below.

### ***Wire Gauge, Grounding, and Pairing***

- Use 28 AWG 7-strand wire with 0.020–0.028" insulation.
- The chassis must be grounded both by a drain wire and by the braid; both must be connected to the connector case and shell at each end of the cable. The braid must be connected through its full circumference.
- Wires identified under the heading “Twisted Pairs” must be paired. If you do not install twisted pairs correctly, the cable will not work.

### ***Type of Connectors***

The VHSI port accepts a high density 36-pin male cable connector. The types of connector used on the interface-specific end of the cable are as follows:

<i>Interface</i>	<i>Connector</i>
V.35	Type M
V.24	DB25
V.36/RS-449	DB37
EIA-530	DB25
X.21	DB15

*Table 9. Connector Types*

# ***Technical Specifications***

## ***Technical Data***

- PCI bus compatible (32-bit slot)
- Hitachi 64570 HDLC controller at 10 MHz
- 512 KB of DRAM

## ***Hardware Installation***

- Automatic configuration of interrupt request level setting and memory address
- 32-bit memory access

## ***External Interface***

- Two 36-pin female VHSDI ports connect to 36-pin high-density male connectors
- Support for V.24, V.35, EIA-530, and V.36/RS-449
- X.21 with V.11 (X.27) signalling
- Internal or external clocking (DTE or DCE) or split (transmit internal, receive external)

## ***Performance***

- 2 Mbps full duplex per physical port

## ***Power Requirements***

- 1.25 A @ +5V
- 50 mA @ +12V
- 25 mA @ -12V

## ***Environmental Requirements***

- Operating temperature: 0°C to 50°C
- Operating humidity: 0 to 90% (non-condensing)
- Barometric operating pressure: 86 to 106 kPascals
- Maximum tolerance in power supply variation: +5% to -5%

# ***International Regulatory Information***

## ***Regulatory Information for the USA: FCC Warning***

Warning: Changes or modifications to this unit not expressly approved by Eicon Technology Corporation could void the user's authority to operate the equipment.

Note: This equipment has been tested and found to comply with the limits for a Class B digital device, pursuant to Part 15 of the FCC Rules. These limits are designed to provide reasonable protection against harmful interference in a residential installation. This equipment generates, uses and can radiate radio frequency energy and, if not installed and used in accordance with the instructions, may cause harmful interference to radio communications.

However, there is no guarantee that interference will not occur in a particular installation. If this equipment does cause harmful interference to radio or television reception, which can be determined by turning the equipment off and on, the user is encouraged to try to correct the interference by one or more of the following measures:

- Reorient or relocate the receiving antenna.
- Increase the separation between the equipment and receiver.
- Connect the equipment into an outlet on a circuit different from that to which the receiver is connected.
- Consult the dealer or an experienced radio/TV technician for help.
- This unit requires shielded cables to comply with the FCC Class B emissions limits. Use of unshielded interface cables is prohibited.

## ***Regulatory Information for Canada***

**NOTICE:** The Industry Canada label identifies certified equipment. This certification means that the equipment meets certain telecommunications network protective, operational and safety requirements. Industry Canada does not guarantee the equipment will operate to the user's satisfaction.

Before installing this equipment, users should ensure that it is permissible to be connected to the facilities of the local telecommunications company. The equipment must also be installed using an acceptable method of connection. In some cases, the company's inside wiring associated with a single line individual service may be extended by means of certified connector assembly (telephone extension cord). The customer should be aware that compliance with the above conditions may not prevent degradation of service in some situations.

Repairs to certified equipment should be made by an authorized Canadian maintenance facility designated by the supplier. Any repairs or alterations made by the user to this equipment, or equipment malfunctions, may give the telecommunications company cause to request the user disconnect the equipment.

Users should ensure for their own protection that the electrical ground connections of the power utility, telephone lines and internal metallic water pipe system, if present, are connected together. This precaution may be particularly important in rural areas.

**Caution:** *Users should not attempt to make such connections themselves, but should contact the appropriate electric inspection authority, or electrician, as appropriate.*

This digital apparatus does not exceed the Class B limits for radio noise emissions from digital apparatus set out in the Radio Interference Regulations of the Canadian Department of Communications.

Le présent appareil numérique n'émet pas de bruits radioélectriques dépassant les limites applicables aux appareils numériques de la classe B prescrites dans le Règlement sur le brouillage radioélectrique édicté par le ministère des Communications du Canada.

## ***Regulatory Information for Europe***

This equipment displays the CE168X mark to show that it has been tested and found to fully comply with the Terminal Equipment, EMC and Low Voltage Directives (91/263/EEC, 89/336/EEC and 72/23/EEC, as amended by Directive 93/68/EEC).

### ***Safety Status: SELV***

No voltages within this equipment exceed SELV voltages. All interconnection points and ports are SELV.

## ***User/Installer Instructions for the United Kingdom***

### ***EiconCard P92 Communications Board***

#### ***Important Safety Considerations When Installing Into A Host Computer System***

The EiconCard P92 is a half-length PCI compatible card.

The EiconCard P92 is approved only for installation in an EN60950 approved host, surrounded by a minimum 2.5 mm air gap, and with host attachments which are either type approved for such apparatus, or, if supplied after March 1, 1989, are marked with or supplied with a statement that the host is supplied under: GENERAL APPROVAL NUMBER NS/G/1234/J/100003.

#### ***Installation Within A Spare Slot Position***

In order to comply with Safety Regulations particular care should be taken to ensure adequate separation between the EiconCard P92, the components mounted on it, and any adjacent modules.

Except at the edge connector which plugs into the host's expansion slot, clearance and creepage distances of X mm and Y mm, as listed in Table 10, must be maintained between the EiconCard P92 card and other parts of the host including any other expansion cards fitted.

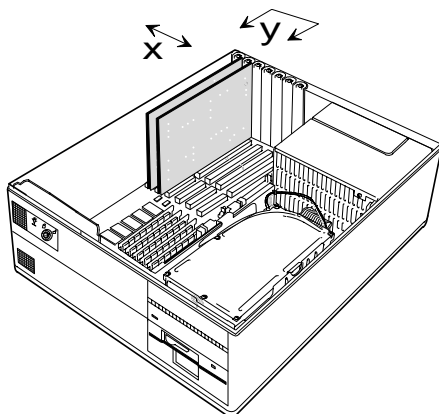


<i>Clearance X mm</i>	<i>Creepage Y mm</i>	<i>Voltage used or generated by other parts of the host or expansion card Vrms or Vdc</i>
2.0	2.4 (3.8)	up to 50
2.6	3.0 (4.8)	up to 125
4.0	5.0 (8.0)	up to 250
4.0	6.4 (10.0)	up to 300

*Table 10. Creepage Distances*

The creepage distances apply when installed in a normal office environment. The creepage distances shown in parentheses apply where the local environment within the PC is subject to conductive pollution or dry non-conductive pollution which could become conductive due to condensation.

These distances can be checked by measuring between the adjacent parts as shown below. X shows the clearance distance which is the shortest distance in air between two points. Y shows the creepage path (along surfaces) between the same two points.



*Figure 13. Typical Installation*

## ***Power Consumption***

Check that power supply will not be overloaded. Maximum power consumption of the board is stated on page 22. The user should check that the total power drawn by the host computer, the EiconCard P92, and any other peripherals, does not exceed the capability of the host power supply unit.

# ***Regulatory Information for Japan***

Eicon Technology Corporation

EiconCard P92

JATE approval numbers:

D97-K002-0

N97-N009-0

N97-K003-0

Date of approval: February 19, 1997

# *Limited Warranty*

Eicon Technology Corporation warrants to the original purchaser of this Eicon Technology Product that it is to be in good working order for a period of five (5) years from the date of purchase from Eicon Technology or an authorized Eicon Technology dealer. Should this Product, in Eicon Technology's opinion, fail to be in good working order at any time during this five year warranty period, Eicon Technology will, at its option, repair or replace this Product at no additional charge except as set forth below. Repair parts and replacement Products will be furnished on an exchange basis and will be either reconditioned or new. All replaced parts and Products become property of Eicon Technology. This Limited Warranty does not include service to repair damage to the Product resulting from accident, disaster, misuse, abuse, or non-authorized alterations, modifications, and/or repairs.

Products requiring Limited Warranty service during the warranty period should be delivered to Eicon Technology with proof of purchase. If the delivery is by mail, you agree to insure the Product or assume the risk of loss or damage in transit. You also agree to prepay shipping charges to Eicon Technology and to use the original shipping container or equivalent.

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# Product Comment Form

*EiconCard P92  
Installation Guide  
203-086-01*

We value your comments. Please use the tables below to rate this product.

Name \_\_\_\_\_

Title \_\_\_\_\_

Company \_\_\_\_\_

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## EiconCard P92

Packaging	<i>Poor</i>	①	②	③	④	⑤	⑥	⑦	⑧	⑨	⑩	<i>Excellent</i>
Configuration	<i>Difficult</i>	①	②	③	④	⑤	⑥	⑦	⑧	⑨	⑩	<i>Easy</i>
Performance	<i>Poor</i>	①	②	③	④	⑤	⑥	⑦	⑧	⑨	⑩	<i>Excellent</i>
Workmanship	<i>Poor</i>	①	②	③	④	⑤	⑥	⑦	⑧	⑨	⑩	<i>Excellent</i>

## Installation Guide

Accuracy	<i>Low</i>	①	②	③	④	⑤	⑥	⑦	⑧	⑨	⑩	<i>High</i>
Organization	<i>Confusing</i>	①	②	③	④	⑤	⑥	⑦	⑧	⑨	⑩	<i>Clear</i>
Readability	<i>Difficult</i>	①	②	③	④	⑤	⑥	⑦	⑧	⑨	⑩	<i>Easy</i>
Presentation	<i>Poor</i>	①	②	③	④	⑤	⑥	⑦	⑧	⑨	⑩	<i>Excellent</i>

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